



SONIC PROBE™ 250



SONIC DRILL CORPORATION

SUITE 400 - 120, 114 WEST MAGNOLIA ST BELLINGHAM, WA 98225
 PH +1 604 306 2552 TOLL FREE +1 877 854 1383 SONIC-DRILL.COM

TECHNICAL SPECIFICATIONS

Drill head type	Hydraulically driven rotary head with vibration
Oscillator output force (max.)	17,625 lbs force [78.4 kN]
Frequency (max.)	66 Hz
Rotation torque	3,983 ft-lbs [5.4 kNm] and 1,991 ft-lbs [2.7 kNm] high
Rotation speed	33 rpm low / 66 rpm high
Feed system type	Variable Speed Hydraulic Cylinder with Chain
Feed stroke	110" [2.79 meters]
Down force (max.)	10,500 lbs [4762 kg]
Retraction force (max.)	24,000 lbs [10,884 kg]
Wet weight	9,000 lbs [4,082 kg] approx.
Width	56" [1,422]
Length (mast folded)	181.5" [4,610]
Height (mast folded)	88" [2,235] with slew, 85" [2,159] without slew
Height (mast folded w/ foot & Sonic head removed)	67.5" [1,715]
Height (mast raised w/ jib in lowest position)	176" [4,470]
Height (mast raised w/ jib in highest position)	203.5" [5,169]
Height (mast raised w/ jib removed)	172" [4,369]
Mast length	172" [4,369]
Center of spindle to mast frame	10.875" [276]
Drill head, hydraulic cylinder swing out c/w latch	81 Degrees
Mast slide <dump> (up-and-down)	30" [762]
Hydraulic system	Two tandem variable displacement pumps, pressure & flow controlled
Hydraulic pressure (system)	2,800 Psi [193 Bar]
Hydraulic flow rate (system)	31 Gpm [117 l/m]
Hydraulic reservoir	39 US Gal [150 Liters]
Slew bearing with drive	360 Degrees
• Refer to dimensional drawing for the above •	
Fuel capacity (diesel)	21 US Gallon [80 Liters]
Engine (diesel)	Perkins 404D - 22T 2.2 liter turbocharged EC stage IIIA/USA EPA tier 3
Engine power (gross Intermittent)	61 bhp/45.5 kW @ 3000 rpm
Engine power (governed)	56 bhp / 42 kW @ 2400 rpm
Cooling system	Liquid
Hydraulic oil cooler	15,000 btu/hr @ 50 degrees F, E.T.D.
Electrical system	12 VDC
Area track on ground	1335 sq.in. [8613 sq.cm.]
Track ground pressure	6.7 psi [0.46 bar]
Track width	9.75" [250]
Track length	76" [1935]
Outrigger stroke	15" [381]
Ground speed	1.5 Mph [2.4 Kph]
Hoist type	Variable Speed Planetary c/w Brake
Linepull capacity	1,103 Lbs [500 kg]
Linepull speed	0 - 164 Feet / Min [0 - 50 meters / min]
Spool capacity	1/4 inch x 118 Feet [6 mm x 36 meters]
Color	Black & Winter White
Hydraulic breakout table	Clamping range: 1.5" (38) - 8.625" [219], Double or triple clamp options
Water injection pump	EO413 HD, FMC pump, 4 pistons, 600 Psi/379 Bar, 390 - 575 rpm, 14 - 20 gallons [other pump options available]

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*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE



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STANDARD / OPTIONAL EQUIPMENT

	STANDARD	OPTIONAL
EP-55 Sonic drill head	●	
Drill head, hydraulic cylinder out c/w latch	●	
Auxillary hydraulic ports		●
360 degree slew bearing and drive		●
Mast slide <dump> (up-and-down)	●	
Control panel	●	
Jib with winch		●
Decontamination racks		●
Water transport system		●
Receiver hitch hookup		●
Machine vise and mount		●
Radio track controller	●	
Hydraulic fluid cooler	●	
61 Hp diesel power unit	●	
Rubber tracks	●	
Rod rack		●
Accessory power port, 12V		●
Exterior working lights		●
Deck side skins	●	
Skid, heli-platform or truck mount		●
Rod casing guide		●
Bolted mast foot	●	
Hydraulic breakout table		●
Water injection pump c/w swivel		●
SPT hammer system		●
Engine enclosure	●	

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